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BOSTON. 6354,52

ANNUAL REPORT

OF THE

INSPECTOR OF BUILDINGS,

For the Year 1882.

DEPARTMENT FOR THE SURVEY AND INSPECTION OF BUILDINGS.

Office of the Inspector of Buildings, Old State House, January 1, 1883.

To the Honorable the City Council of the City of Boston: —

Gentlemen, — In compliance with the provisions of Section 7 of Chapter 280 of the Laws of 1871, I have the honor to submit for your consideration a detailed report of the operations of this department for the year ending December 31, 1882.

The methods adopted by the department of examining plans and specifications, as a rule, works admirably, in saving time and trouble; defects in contemplated construction are discovered and obviated without any considerable expense, and thereby many unprofitable disputes and disagreements between owners and contractors are saved.

The department has endeavored in these examinations to point out what it believes to be true economy in construction, viz.: a reasonable outlay in its original, that it may be altered for any changed condition of purpose,—a matter too frequently lost sight of by owners, architects, and contractors. I have heretofore in my annual reports called the attention of your honorable body to the necessity of certain amendments to the

building laws, and of the necessity of such amendments I am

more thoroughly convinced.

The operations of the Department the past year have been prosecuted with energy and success, and this I attribute, in a great measure, to the experience and familiarity with the methods adopted of applying the law as acquired by the officers in the discharge of their duties, and their daily duties are performed with increasing proficiency.

The official intercourse of the department with owners, architects, contractors, and builders, has been marked with

mutual deference and courtesy.

There has been added to the department, by Chap. 252 of the Acts of 1882, the following:—

The facts and returns relative to steam-boilers required to be ascertained and made to the tax commissioner by Sect. 92 of Chap. 11 of the Public Statutes, shall be ascertained and made in the city of Boston by the Inspector of Buildings, and not by the Assessors.

And also by authority of same chapter, the following ordinance:—

Section 1. All hoistways and elevators, except those constructed in dwelling-houses, intended for not more than two families, shall be enclosed in brick shafts, the walls thereof to be not less than eight inches thick, said walls to be carried up to and through the roof to a distance of not less than one foot and six inches above the same, said shafts to be

covered with a ventilating skylight.

SECT. 2. The openings through or upon each floor of any building in the city, in which there is or may hereafter be placed any hoistway, elevator, or well-hole, shall be protected by good and sufficient railings and trap-doors, or such other mechanical devices as shall be equivalent thereto, and every hoistway and elevator shall be provided with some sufficient arrangement to prevent the falling of the elevator in case of any accident to the ropes, pulleys, and other hoisting apparatus.

Sect. 3. The openings into the shaft of every elevator to be hereinafter constructed, except passenger elevators, shall be furnished with metal doors hung to rebated iron frames, with iron thresholds to the same, such doors to be provided with springs of sufficient strength to keep them closed when not in use. An equivalent protection against fire may, in the case of passenger elevators, be substituted for such

doors.

SECT. 4. No hoistway, elevator, or well-hole shall be used in any building in the city, unless the same has been first inspected and approved by the Inspector of Buildings.

The department, in order to enforce the provisions therein contained, detailed two special officers, and the faithfulness and efficiency with which they have performed their work meet the Inspector's entire approval.

This special work will be prosecuted as rapidly as circum-

stances will admit, until a complete record is made of passenger and freight elevators in this city.

This is an important work, and cannot be overestimated.

I would recommend to your honorable body for consideration the necessity of extending the building limits of the city (so called) so as to embrace that part of the city known as the Charlestown District, it being now one of the most compact sections of our city.

I also take this occasion to return my sincere thanks to the committee of last year for the consideration and attention

they have given to the work of the department.

Very respectfully,

I am your obedient servant,

JOHN S. DAMRELL,

Inspector of Buildings.

Under the provisions of the statutes relating to buildings in the city of Boston, and under the provisions of the City Ordinances relating to buildings, the department has supervision over the following matters:—

The erection of brick, stone, and iron buildings, under statute provisions, throughout the entire city limits.

The erection of wooden or frame buildings of limited dimensions and range, outside of the building limits, under the provision of the city ordinance.

Additions, alterations, and repairs upon all classes of buildings, with especial reference to their compliance with the

present requirements of the building law.

The inspection of unsafe buildings and structures, with full power to require the securing or removal of the same, and in cases of immediate danger, where the security of the public is imperilled in life and limb, authority to enter upon, secure, or take down the same, as the exigencies of the public safety, in the opinion of the Inspector, may require.

The examination of buildings damaged by fire or accident, with authority to enter upon the premises and investigate

the origin of fires.

The inspection of buildings liable to take fire from unsafe

flues and heating apparatus.

The supervision and the protection of the building limits; the district in which the erection of independent wooden buildings is prohibited by statute law, with a limitation as to wharves.

Special authority invested in the Inspector of Buildings to issue permits for wooden and frame sheds for special purposes, at his discretion, upon wharves situated within

the building limits of the city.

The examination for the approval of plans of proposed tenement-houses, public and family hotels, with reference to their compliances with special statute provisions, regulating area for light and ventilation, material of construction, water-closets, drainage, cesspools, height of habitable rooms, window openings, hall-ways, construction of stair-ways, fire-escapes, and the height of the building as regulated by the width of the street upon which they are proposed to be erected.

The enforcement of statutory provisions requiring fireescapes upon certain buildings in which operatives are employed, in factories, mills, or manufactories, tenement-

houses, and hotels, etc.

Authority invested in the Inspector of Buildings, under the Act relating to means of egress from buildings occupied for public purposes, to regulate the entrances, doorways, passage-ways, their width, construction, and number, and obstructions that may be placed therein, the arrangement of the seatings, and the use of combustible materials, draperies, scenery, properties, etc.

The inspection of all hoist-way and elevator openings in buildings, with reference to their construction in comformity with the requirements of statute law and their

use.

Compliance with the requisitions of the Board of Health.

The setting of steam-engines and boilers.

The building of furnaces for melting iron, glass, or other metals.

The building of ovens, kilns, etc.

The setting of heating apparatus in all classes of buildings.

The examination of the grade of cellar bottoms of buildings built upon filled land; reporting violations of the same to the Board of Aldermen.

The storage of combustible material in buildings occupied in whole or in part as dwellings, situated within the build-

ing limits of the city.

Buildings authorized by the Board of Aldermen to be used for stables are licensed to be occupied for this purpose, under the direction of the Inspector of Buildings.

The examination of buildings, with reference to their being provided with ample and sufficient means of egress, and their compliance with statute requirements, upon petition for license to occupy the same as a place of public amusement.

Examination of private signs, lanterns, druggists' mortars, etc., located in the public highways, upon a petition to the Board of Aldermen to maintain the same, if secured satisfactory to the Inspector of Buildings.

Authority to apply to the Supreme Judicial Court for an injunction restraining the construction of windows, steps, and porches, projecting into or over any public

highway.

The inspection of all steam boilers, so that the facts and returns relative to them, required to be made, may be returned to the Tax Commissioners.

The projection of electric lights throughout the entire city.

The construction, management, and inspection of hoist-ways and elevators throughout the entire city.

THE OPERATIONS OF THE DEPARTMENT.

The number of brick, stone, and iron build-	
ings for which permits have been issued	
during the year	235
The number of wooden buildings for which	
permits have been issued during the year .	838
The number of sheds situated upon wharves	
within the building limits of the city for	
which permits have been issued	23
The number of buildings for which permits	
have been issued to have additions built to	
them, or to have alterations and repairs	
made upon them	2,205
The number of steam-boilers, engines, etc.,	
for which permits have been issued to set.	254
The number of ovens, ranges, etc., for which	
permits have been issued to build	35
The number of kilns, kettles, etc., for which	
permits have been issued to build	13
The number of furnaces, etc., for which per-	
mits have been issued to build	65
The number of heating apparatus, for which	
notices have been received, with intention to	
put in	464
The number of permits issued for the occupancy	
of streets, for building purposes	1,502
The number of electric lights for which per-	,
mits have been issued to project	106

The number of examinations made on new	
buildings, in process of erection	8,972
The number of examinations made on buildings	,
undergoing repairs, alterations, etc	7,353
The number of special examinations made .	158
The number of examinations made on build-	200
ings, with reference to their means of egress	
	663
The number of examinations that have been	003
made on hoist-ways and elevators, with ref-	
erence to their conforming to the provisions	450
of the ordinances	450
The number of examinations made with ref-	00=
erence to the setting of steam-boilers .	627
The number of examinations made with ref-	
erence to the setting of heating apparatus,	530
The number of examinations made for sundry	
purposes	127
The number of examinations made of signs,	
lanterns, transparencies, and druggists'	
mortars, located in public highways, upon a	
petition to the Board of Aldermen to main-	
tain the same, if secured to the satisfaction	
of the Inspector of Buildings	142
The number of examinations made of plans .	995
The number of examinations made as to com-	
bustible material being improperly stored in	
buildings	4
The number of examinations made on buildings	*
damaged by fire, or accident, with reference	395
to cause of same	090
The number of reports made of buildings,	
walls, etc., in an unsafe and dangerous	0.07
condition	387
The number of reports made of chimneys in an	× 0.0
unsafe and dangerous condition	566
The number of reports made of flues in a defec-	
tive condition	16
The number of reports made of heating appa-	
ratus in an unsafe condition	12
The number of reports made on boilers, fur-	
naces, etc., in an unsafe condition	16
The number of reports made on buildings	
damaged by fire or accident	661
The number of reports made for sundry	
purposes	863
The number of notices issued on violations .	251

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	er of notices issued on unsafe l	
ings, wa		. 110
	er of notices issued on dang	
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	er of notices issued on insuff	
egress a	nd fire-escapes	. 182
The numb	er of notices issued on boilers	, fur-
	tc., in an unsafe condition .	. 23
The numb	er of notices issued on stables,	with
reference	e to license of same	. 15
The number	er of miscellaneous notices issu	ed . 583
The numb	er of buildings, walls, etc.,	in an
unsafe d	condition recorded	
	er of chimneys in an unsafe and	
gerous c	condition recorded	. 184
	er of defective flues recorded.	. 18
	er of heating apparatus in an u	
	n recorded	. 19
	er of violations recorded .	1,547
	er of requisitions issued for l	
	f egress from buildings (Spe	1 '
	er of cases referred to the Cit	
licitor		
	er of brick buildings completed	
	hich final reports have been	
dered	· · · · · · · · · · · · · · · · · · ·	238
	er of wooden buildings compl	
	on which final reports have	
	er of buildings upon which re	
	ns, and additions have been	
pleted d	uring the year	2,263
The numb	er of steam-boilers, engines,	etc.,
set, and	furnaces, ovens, ranges, etc.,	bullt, 323
The numb	er of heating apparatus set .	. 632
The numb	er of fire-escapes completed d	uring
the year		. 119
Estimated	cost of completed brick building	ngs . \$4,932,640
66	wooden and	
	buildings	. \$2,379,278
66	" additions, a	ltera-
	tions, and	
	pairs .	
66	setting steam-boilers,	
	scume scam-boncis.	en-
	gines, etc., building	g fur-
66		g fur- , etc., \$472,552

Estima	ated cost of	f sec	uring	unsa	ıf e b	uildin	gs,	
			etc.					\$23,394
66	4 6	sec	uring	dan	gerou	s ch	im-	ŕ
		1	neys		•	•	•	\$4,655
6.6	6.6	pro	viding	g fire	esca	apes a	and	
		ŧ	additic	onal m	eans	ofegre	ess,	\$14,538
4.6	-66	con	$_{ m iplete}$	d elec	etric l	ights	•	\$4,210
6.6	amount	of	damag	ge to	buile	dings	by	
	fire	is	•	•	•		•	\$186,372
The nu	umber of c	omm	unicat	ions,	notic	es, e	t c. ,	
rece	ived, referi	red, a	and ac	ted u	pon	•	6	814
From					٠	ą.		84
	Police De				0.	•		60
	Surveyor's			ent	a	٩	κ.	35
	Fire Depa			•	6.	•.	•	5
	Board of				•	•	κ.	141
	general co	mmu	ınicati	ons	а,	•	•	499
	Total		a.	9				814



Number of Brick, Stone, and Iron Buildings in each Ward for which Permits have been issued to build.

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Ga	Ga	Go	Ho	Loc	Ma	Me	Me	Pay	Pot	Puj	Pm	Ret	Sel	Sig	Ska	Sta	Sto	Sto	Sto	Ter	Tel	Tri

Showing the Number of Stories and Styles of Roofs of the foregoing Buildings.

Ward.	No. of Buildings.		No.	of §	Stor	ies.		٤	STYLE	ог І	ROOF.	
WARD.	No. Bull	1	2	3	4	5	6	Man.	Flat.	Pitch.	Hip.	Sun.
1	1	1								1	٠.	
2	2		1	1				1	1			
3	2		2				٠.		2			
4	4	2		2				2	1	1		
5												
6	5		1	1	3				5			
7	7	1			4	1	1	1	6			
8	2					2			2			
9	4			4				1	3			
10	8	1		1	1	3	2		7	1		
11	101	8	23	42	20	6	2	70	20	10	1	
12	14		2	1	9	2			13	1		
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14	11	2	2	7				1	8	2		
15	2	1	1						. 2			
16	12	1			10	1		a .	12			
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Totals	235	34	42	67	71	16	5	77	127	25	4	2

Number of Wood and Frame Buildings in each Ward for which Permits have been issued.

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Number of Wood and Frame Buildings in each Ward for which Permits were issued. — Continued.

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Showing the Number of Stories and Style of Roofs of the foregoing Buildings.

Ward.	No. of Buildings.	N	To. of	Storii	es.	S	TYLE (of Roo)F.
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3	10	2	2	5	1		9	1	
4	21	8	8	5		3	18		
5	17	9	4	4			7	10	
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13	35	11	10	14		1	29	5	
14	89	35	40	14		36	38	13	2
15	24	10	11	3		5	8	11	
18	1	1		• • •			1		
19	9	4	2	3		2	5	2	
20	70	15	49	5	1	6	18	42	4
21	118	16	86	16		10	17	65	26
22	33	14	10	9	• • •	2	21	5	5
23	131	52	72	7		5	26	91	9
24	154	69	83	2		7	18	113	16
25	70	23	44	3	• • •		4	58	8
Totals	841	303	438	98	2	84	237	449	71

SPECIAL PERMITS.

The provisions of Section 1 of Chapter 260 of the Acts of 1872 prohibit the erection of independent wooden buildings within the boundaries of the district known as the building limits of the City of Boston, with certain exceptions as to wharves.

Wooden additions to existing buildings in this district can, however, be erected, with a limitation as to height and area to be covered.

These limits are established by the City Council under statute authority; and by an ordinance approved July 8, 1871, were defined as follows:—

Beginning at the intersection of the centre line of Dover and Albany streets, thence running eastwardly through the centre of Dover street to the Harbor Commissioners' line; thence around the northerly portion of the "City Proper," by the said Harbor Commissioners' line to a point on Charles river, opposite the centre line of Parker street or cross dam; thence through the centre of Parker street or cross dam to a point opposite the centre of Ruggles street; thence through the centre of Ruggles street to the centre of Washington street; thence through the centre of Washington street to a point opposite the centre of Palmer street; thence through the centre of Palmer and Eustis streets to the centre of Hampden street; and thence through the centre of Hampden and Albany streets to the point of beginning.

and Albany streets to the point of beginning.

The said district being shown by a shaded red line on a plan made by the City Surveyor, dated June 26, 1871, and deposited in the office of

the City Surveyor.

The above ordinance, establishing the boundaries of the building limits, was amended April 6, 1878, by striking out after the words, "to a point on Charles river opposite the centre line of," the words "Parker street or cross dam," and inserting in their place the words, "West Chester park as extended; thence through the centre of West Chester park to its intersection with Boylston-street extension; thence through the centre of Boylston-street extension to the centre of Park street"; and after the words, "dated June 26th, 1871," insert the words, "as amended as shown by a shaded blue line on said plan." December 31, 1881, the following was passed:—

AN ORDINANCE TO AMEND AN ORDINANCE IN RELATION TO THE REGULATION AND INSPECTION OF BUILDINGS.

Be it ordained by the Aldermen and Common Council of the City of Boston, in City Council assembled, as follows:—

SECTION 1. Section 1, of an ordinance in relation to the regulation nd inspection of buildings, passed July 8, 1871, and amended April 6, 1878, is hereby repealed and the following enacted in place thereof:—

SECTION 1. The limits within which all buildings hereafter erected shall be required to conform to the provisions of Chapter 280 of the year eighteen hundred and seventy-one, are hereby established and defined

as follows: -

Beginning at the intersection of the centre line of Dover and Albany streets, thence running eastwardly through the centre of Dover street to the Harbor Commissioners' line; thence around the northerly portion of the "City Proper," by the said Harbor Commissioners' line to a point on Charles river at the intersection of said line with a boundary line between Brookline and Boston; thence along said boundary line to a point opposite the centre of Longwood avenue; eastwardly to the centre of Bumstead lane; thence through the centre of Bumstead lane to the centre of Ward street; thence through the centre of Ward street to the centre of Parker street; thence through the centre of Parker street to Ruggles street; thence through the centre of Ruggles street eastwardly to the centre of Washington street; thence through the centre of Palmer and Eustis streets to the centre of Hampden street: and thence through the centre of Hampden and Albany streets to the point of beginning.

The said district being shown by a shaded red line on a plan made by the City Surveyor, dated June 28, 1881, and deposited in the office of the

City Surveyor.

Showing the whole number and purpose of buildings for which special permits have been issued:—

Ferry-house									1
Freight-sheds									5
Markets				•		•		•	3
Mechanical			•					•	2
Storage	•	•		•	•			•	10
Store .	•		•	•	•	•	•	•	1
Wharfage	•	•	•	•	•	•	•	•	1
•									
Total	•	•	•	•	•	•	•	•	23

Number and Purpose of Buildings in each Ward for which Special Permits have been Issued.

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Showing the Number of Stories and Styles of Roofs of the foregoing Buildings.

Wards. No. of Stories. Style of Roof.														
Wards.	1	2	3	Man.	Flat.	Pitch.	No. of Buildings.							
1														
2														
3														
4														
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6	8	4	1		12	1	13							
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23	1													
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Total	18	4	1		21	2	23							

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STEAM-ENGINES, BOILERS, OVENS, AND FURNACES.

Under the provisions of Section 18 of Chapter 371 of the Acts of 1872, this department has supervision of the setting of all steam-boilers and heating apparatus, and the building of ovens, furnaces, etc.

The prosecution of this work does not, however, involve an inspection of the boilers, with a view to ascertain their condition and safety, and, though frequently called to act for that purpose, it has no legal authority.

STEAM-ENGINES, BOILERS, FURNACES, ETC.

The number of steam-boilers, engines, furnaces, etc., for which permits have been issued during the year, is as follows:—

STEAM-ENGINES AND BOILERS, ETC. Steam-engines . . . Steam-boilers . . . 38 162 Steam-boilers and engines 52 1 1 254 Ovens, Ranges, etc. Baker's ovens. 4 Ovens . 11 9 Broilers. Ranges . . 11 Total . 35 KILNS, KETTLES, ETC. Furnace kettles 5 Kilns Coffee-roasters Total . 13 FURNACES, ETC.

Melting-furnaces
Cupola furnace

Glass furnace.

Forges .			•		•	•	•		17
Blacksmith's fo	orges	•	•	•		•	•		4
Tailor's furnac			•	•			•		2
Sundry .	•	•	•	•	•	•			2
Total .		•	۰	٥			•	•	65
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Furnaces, and	other	r heat	ing ar	parat	us	a.	٥	. 4	164

Number of Steam-Boilers, Engines, Furnaces, etc., in each Ward, for which Permits have been issued.

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Number of Steam-Boilers, Engines, Furnaces, etc., in each Ward, for which Permits have been issued. — Continued.

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		Smoke-house	Steam-boilers	Steam-boilers and engines	Steam-engines	Tailor's furnaces	Totals
		Smoke-ho	Steam-boi	Steam-boi	Steam-eng	Tailor's fu	Totals

ALTERATIONS, ADDITIONS, AND REPAIRS.

The number of buildings for which permits have been ssued to have alterations made upon them, and to have additions built to them, is 2,205, classified as follows:—

Brick				•	•	•			888
Wood	•	•			•		•		1,307
Stone			•		•		•		8
Iron	•		•		•			•	2
	Total			•					2,205

Number and Purpose of Buildings in each Ward for which Permits were issued for Repairs, Alterations, and Additions.

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MEANS OF EGRESS AND FIRE-ESCAPE.

Under the provisions of the building law, fire-escapes and sufficient means of egress are required in the following classes of buildings:—

Buildings in which operatives are employed in any of the

stories above the second story.

Buildings occupied by two or more families on any floor above the second floor from the level of the street.

Hotels, boarding and lodging houses, factories, mill or

manufactory.

Buildings occupied in part, or in whole, for any public

purpose.

All new buildings belonging to any of the above classes are especially examined in regard to their construction, with reference to fulfilling legal requirements in furnishing suitable and ample means of egress in case of fire or accident.

The number, location, arrangement, and width of the stair-ways; the proposed number of occupants or operatives; the proposed use of the building; its proximity to other buildings, and the materials of which it is built,—all enter

into consideration.

Old buildings altered to, or by occupancy brought to, be comprised in any of the above classes of buildings requiring fire-escapes, are also duly inspected, and the necessary means of escape are required, the same as if it was a new building.

Number and Purpose of Buildings in each Ward for which better Means of Egress have been ordered.

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Number and Purpose of Buildings in each Ward, for which better Means of Egress have been ordered. — Continued.

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61	•	က	,	:	:	:	Н	:	:	П	:	36
:			:	:	:	:	:	61	:	:	:	
:	:	:	:	П	:	•	:	:	:	:		6
$\overline{\cdot}$	H	:	:	:	:	:	:	က	П	:	:	27
63	:	:	:	:	:	,-	61	က	:	:		25
:	:	:	:	:	:	:	:	:		:	H	7.0
:	:	1:	:	:	:	•	:	:	:	:		9
:	:	:	• :	:	:	:	:	:	:	:		∞
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:	:	:	:	•.	:	:		:	:	:	:	
Stores and Mechanical	:	:	. •	•	•	•	•	:	•	•	Young Men's Christian Association	
:	:	:	•	:	:	•	•	•	:	:	atio	
	:	:	•	•	ing	•	:		:	:	soci	:
•		•	•	ling	gpo'	•	•	•	•	•	ı As	
ical	uph			wel	ld L		nts				tiar	
ban	ogra	ting	loc	d D	; an	:	sme	:			bris	
Mec	hot	Prin	Scho	, an	ling	all	Cene	•	:	•	s C	
nd 1	d P	nd J	nd S	pop	wel	d H	nd J	nts	•	Nom	Ten	ıls
es a	e an	38 a	es a	φ, Ω	9, D	e an	es a	sme	utre	k-rc	ng J	Totals
Stor	Store and Photography	Stores and Printing	Stores and School	Store, Shop, and Dwelling	Store, Dwelling, and Lodging	Store and Hall	Stores and Tenements	Tenements	Theatres	Work-rooms	You	
OL2	02	U)	02	02	02	02	02	57	27		-	

Showing the Number of Stories and Style of Roofs of the foregoing Buildings.

Wards.	No. of Buildings.		No	of S	TORI	es.		ST	YLE (of Roc	of.
WALDS.	Buil	1	2	3	.4	5	6	Man.	Flat.	Pitch.	Hip.
1	5		2	3	• •					5	
2	13		5	8					3	6	4
3	8	2	4	2						7	1
4	6	1	2	2	1	• •		2		4	
5	5		1	3	1				1	2	2
6	25		2	9	11	2	1	9	5	11	
7	27		1	7	11	7	1	1	12	14	
8	9		• •	6	1	2		2	2	5	
9	7		2	3	2				2	4	1
10	36	٠.		10	17	7	2	11	14	10	1
11	7		2	4	1			3		3	1
12	29		2	6	17	4		7	14	4	4
13	29		1	15	11	2		12	11	6	
14	7		3	3	1			4		2	1
15	6		2	3	1			2		3	1
16	9		2	6	1			1	1	3	4
17	20		2	10	8			8	9	2	1
18	2				2						2
19	6	1		5					3	2	1
20	4	3		.1						4	
21	6	1		4	1			3	1	2	
22	5		3	2					1	4	
23	4		3	1					1	3	
24	20	2	14	4				6	1	3	10
25	1			1				1			
Totals	296	10	53	118	87	24	4	72	81	109	34

FIRE AND ACCIDENT RECORD.

The number	L-2				as	
damaged by fir	e and accide	ent during	g the year	is	•	395
January, 2	29 buildings	damaged	. amount		\$13	,395
February, 3	31 "	"	66			,865
U /	22 "	66	6 6			,440
,	32 "	66	66			,668
1 /	38 "	66	6 6			,710
	34 "	66	66			,247
	43 "	66	66			,206
•	25 "	6.6	6 6			,783
September, 1	18 "	66	66			,512
A	21 "	6.6	66			,490
November, 3	30 "	66	66			,368
December, 4		66	66			,688
Total, 39	95 "	66	66	•	\$186	,372
The probable	e causes wer	re as follo	ws:			
Accidents .		•				2
Bed-clothing in	contact wit	th stove				1
Bed set on fire						1
Benzine, explo						ī
Benzine, ignition						$\overline{2}$
Boiler, explosi	4					1
Brass-melting			set .			1
Careless use of	matches .					1
Caught from a		building				60
Caught from a			n .			1
Cause not asce		•				ī
Children playi		tches				17
Clothing in cor						_1
Combustion of		•				1
Cylinder stove		of .				1
Defective chim						17
Defective furns						2
Defective grate						4
Defective oven						1
Fire from bran		ling on fl	oor .			1
Fire from plun				loor		1
Fireworks, boy				•		1
Fireworks falli			•		•	1
Fireworks falli	ing on roof		•		•	3
Fire from sto	ve falling or	roof				1
Floor-timbers			ey .	•	•	1

Friction of machinery	2
Fuel placed against furnace	1
Gas, explosion of	4
Gas, ignition of	1
Gas from naphtha ignited by lighted gas-jet	1
Gas stove, upsetting of	1
Heated shaft-box in contact with wood-work	1
Heated shaft in contact with oiled material	1
Heated stove too near wood-work	1
Hot coals dropped in shavings or sawdust	2
Hot coals falling on clothing	1
Hot coals falling on floor	1
Hot coals placed against wood-work	1
Hot coals placed in box or barrel	5
Hot fat, boiling over stove	1
Hot fat, explosion of	1
Hot solder falling on sawdust	1
Incendiary	62
Kerosene oil lamp, breaking of	6
Kerosene oil lamp, explosion of	19
Kerosene oil lamp, upsetting of	1
Lighted candle against wood-work	1
Lighted candle in contact with Christmas tree	1
Lighted gas-jet in contact with show goods	3
Lighted gas-jet in contact with wood-work	1
Lighted lamp in contact with curtain	2
Lighted lamp or match in contact with clothing .	4
Lighted match dropped on curtain	1
Lighted match in contact with varnish	1
Lighted match or cigar dropped on a bed	3
Lighted match or cigar dropped on floor	2
Lighted match or cigar thrown in sawdust	2
Lighted match or cigar thrown in waste paper	4
Lighted match thrown in chest of drawers	1
Lighted match thrown in excelsior	1
Lighted match thrown in rubbish	4
Lighted match thrown on stairs	1
Lighted paper in contact with lounge	1
Lighted pipe in contact with clothing	1
Lighted pipe falling on mattress	1
Lighted pipe in contact with bed clothing and lounge,	2
Lightning	1
Lime, slacking and taking fire	2
Naphtha gas ignited by spark caused by friction of	
machinery	1
Naphtha, ignited by lighted match	1
Overheated boiler	2

REPORT OF INSPECTOR OF BUILDINGS.		99
Overheated flue		· 1
Overheated shaft-box	*	1
Overheated smoke-pipe		2
Overheated stove		ç
Rats or mice among matches		25
Soot from glue-kettle falling on bench		1
Soot in chimney taking fire		1
Soot in stove-pipe taking fire		1
Sparks entering from chimney by open thimble-ho	le .	1
Sparks from chimney falling on roof		12
Sparks from fire apparatus falling on roof .		1
Sparks from fire-box of boiler falling on shavings, e	tc	2
Sparks from fire-box of boiler falling on wood-wor		1
Sparks from fire-box of boiler setting fire to ceiling		2
Sparks from forge igniting wood-work	5 •	2
Sparks from furnace falling on floor	•	1
Sparks from furnace lodging in dust	•	1
Sparks from lighted pine follow on had	•	1
Sparks from lighted pipe falling on bed	•	1
Sparks from lighted pipe falling on clothing .	•	1
Sparks from locomotive blowing into hay-loft .	•	1
Sparks from pipe falling on shavings	•	1
Sparks from portable engine falling on roof	•	1
Sparks or lighted match falling on hay or straw	•	2
Spontaneous combustion	•	35
Stove-pipe in contact with floor	•]
Thawing out frozen water-pipes	•	2
Wood-work in contact with register-box		2
Wood-work in contact with open grate		1

STREET PERMITS.

1,502 street permits were issued during the year 1882; of these 1,130 have been cancelled and 2 revoked; 370 remaining in force January 1, 1883.

There were 162 street permits of 1881 in use January 1, 1882; of these 152 have been cancelled, and 10 are still in

force.

No. of Electric Lights for which Permits were issued during the Year 1882.

Ward	No.
6	10
7	9
8	2
10	50
11	1
12	24
16	7
19	2
21	1
	106

The number of violations investigated and reported on is 1,547, as follows:—

	•	•	2
•	•	•	56
•	•	•	2
•		•	2
			1
			3
		•	3
			3
			. 9
		•	6
			4
•			2
			1
			1
			4
			1
			1
			1
			296
			6
			30
alls			1
			1

REPORT OF	Inspec	TOR	OF	Build	INGS.		37
Foundations insufficient							6
Framing improper .							17
Furnace improperly set							1
Furnace-top too near ce							$\bar{1}$
Girders not tied .							1
Girders not properly su	nporte	d					$\overline{2}$
O' 1	·			·		į	1
Hot-air pipes, wood-wor		inst					49
Improper construction					i.		17
Improper foundation		•	·				2
Increasing height of woo	den a	dditi	ons	•	•		$\frac{2}{2}$
T 00 1 .	•			•	•	•	$\tilde{2}$
Insufficient support	•	•	•	•	•	•	3
Main partitions not head	lad and	L foc	ted.	•	•	•	1
Material poor	ica am	<i>a</i> 100	oca	•	•	•	8
No chains	•	•	•	•	•	•	31
No conductors .	•	•	•	•	•	•	$\frac{31}{2}$
No bars	•	•	•	•	•	•	$\frac{2}{2}$
No door	•	•	•	•	•	•	$\frac{1}{1}$
		•	•	•	•	•	13
No girts	•	•	•	•	•	•	3
No automatic stop .	•	•	•	•	•	•	3
No gutters	•	•	•	•	•	•	$\frac{3}{3}$
No metal-covered doors	•	•	•	•	•	•	$\frac{3}{20}$
No notice	•	•	•	•	•	•	
No permit	•	•	•	•	•	•	105
No step-ladder .	•	•	•	•	•	•	2
No soap-stone collars	•	•	•	•	•	•	10
No trimmer arch.	•	•	•	•	•	•	4
Nails driven into flue	•	•	•	•	•	•	1
No ventilating skylight	•	•	•	•	•	•	1
No stirrup-irons .	•	•	•	•	•	•	1
No safety-stop	. 10 .	•	•	•	•	•	20
Party-walls not built ou		ches	· •	•	•	•	1
Piles not cut at proper g	grade	•	•	•	•	•	2
Piers not capped .	•	•	•	•	•	•	1
Projecting cap .	•	•	•	•	•	•	1
Projecting steps .	•	• .	•	•	•	•	3
Register-boxes not cased	d .	•	•	•	•	•	17
Rails (none)		•	٠.	•	•	•	379
Shell of chimney flue no	t thick	eno	ugh	•	•	•	2
Sills below grade .	•	•			•	•	2 2 2 2
Smoke-pipe improperly	entere	ed in	to ch	nimney	•	•	2
Smoke-pipe too near wo	od-wo	rk	•	•	•	•	2
Small-sized cap .	•	•	•	•	•	•	1
Spruce capping in lieu of	of hard	l-pin	e.		•	•	1
Springs to elevate doors	s subst	itute	ed by	z knob	s .	•	1
Timbers not tinned	•		•	•	•	•	1

Timbers, small-sized	8
Thimbles improperly set	8
Too near wooden buildings	2
Traps, none	271
Unsafe elevators	29
Unsafe smoke-pipe	2
Violation of conditions of permit	4
Walls not anchored	8
Walls not high enough	2
Walls not thick enough	6
Wooden buildings in limits	5
Wooden lintels	8
Walls not coped	1
Total	,547
Violations of the statutes 1,288	
" " ordinances	
Total	
	AR.
No. of unsafe Buildings reported during the Ye	TATES
Unsafe buildings	79
Unsafe buildings	79 1
Unsafe buildings	79 1 1
Unsafe buildings	79 1 1 1
Unsafe buildings	79 1 1 1 2
Unsafe buildings	79 1 1 1 2 1
Unsafe buildings	79 1 1 1 2 1 2
Unsafe buildings	79 1 1 1 2 1 2
Unsafe buildings	79 1 1 1 2 1 2 1
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window	79 1 1 2 1 2 1 1 5
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window	79 1 1 2 1 2 1 5
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front	79 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front '' gable-wall	79 1 1 2 1 2 1 1 1 1 1 1 1 1 1
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front '' gable-wall '' gutters	79 1 1 2 1 2 1 1 1 3
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front '' gable-wall '' gutters	79 1 1 2 1 2 1 1 1 3 1 2
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front '' gable-wall '' gutters '' party-wall '' pier	79 1 1 2 1 2 1 1 1 3
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front '' gable-wall '' gutters '' party-wall '' pier '' pinnacles	79 1 1 2 1 2 1 1 1 3 1 2
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window - '' drop and run '' floor '' foundation '' front '' gable-wall '' gutters '' party-wall '' pier '' pinnacles '' platform '' projection	79 1 1 2 1 2 1 1 1 3 1 2 4
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front '' gable-wall '' gutters '' party-wall '' pier '' pinnacles '' platform '' projection '' railing	79 1 1 2 1 2 1 1 3 1 2 4 1 1 3
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front '' gable-wall '' gutters '' party-wall '' pier '' pinnacles '' platform '' projection '' railing	79 1 1 2 1 2 1 1 5 1 1 1 3 1 2 4 1 1 3 1
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' front '' gable-wall '' gutters '' party-wall '' pier '' pinnacles '' pinnacles '' platform '' projection '' railing '' railing on roof '' rear wall	79 1 1 2 1 2 1 1 3 1 1 1 3 1 1 1 1 1 1 1 1
Unsafe buildings '' bill-board '' bulkhead, stone '' balustrade '' clothes-shed '' cupola '' door-caps '' dormer window '' drop and run '' floor '' foundation '' foundation '' gable-wall '' gutters '' party-wall '' pier '' pinnacles '' pinnacles '' platform '' projection '' railing '' railing on roof	79 1 1 2 1 2 1 1 5 1 1 1 3 1 2 4 1 1 3 1

	REPORT OF INS	PECTOR	of l	Build	INGS.		39
Unsafe	slate on roof .		-	•	•		2
6.6	snow-guard .	•			_ •	i.	1
66	spire	v	•	•	9		1
66	steps				ė.	-	1
66	stairway bulkhead				3	1	. 1
66 -	walls		3		3		33
66	wall and chimney			ų.	U	4	1
66	wall and foundation	l .	· ·				1
66	wharf		9		L.	,52	1
66	yard-wall	÷	-	-	•	٠	1
	Total	,	2	u	٠	z	159

Number of Unsafe Buildings, Walls, Chimneys, etc., Rebuilt etc., during the year.

repared. down. reported on.	79 1 1 1 2
" bill-board 1 " bulkhead-stone 1 " balustrade 1 " clothes-shed 2	1 1 1
" bulkhead-stone 1 " balustrade 1 " clothes-shed 2	1
" balustrade	1
" clothes-shed	
	2
" cupola	
	1
" door-caps	2
" dormer-window	1
" drop and run	1
" floor	5
" foundation	1
" front	1
" gable wall	1
" gutters	3
" party wall	1
" piers	2
" pinnacles	4
" platform	1
" projection	1
" railing	3
" railing on roof	1
" rear wall	1
" roof	1
" shed	1
" slate on roof	2
" snow-guard	1
" spire	1
	1
" stairway and bulk	
	1
	33
	1
	1
	1
	1
	.9
Dangerous chimneys 103 47 34 18	
	8
Totals 108 123 18 131 38	0

Comparative Statement showing the Yearly Operations of the Department since its Organization, October 2, 1871.

	1281	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1883
Brick, stone, and iron buildings	245	974	646	520	348	200	265	187	203	309	308	235
Wood and frame buildings	272	1,051	903	1,278	400	532	532	473	575	464	181	841
Alterations, additions, and repairs.	205	841	1,303	2,052	1,836	1,936	2,343	2,191	2,567	2,294	2,485	2,205
Boilers, engines, furnaces, etc	:	:	11	100	70	124	181	215	808	359	396	367
Heating apparatus	:	:	16	87	91	257	481	976	440	470	561	474
Special wooden buildings	•	21	30	23	п	17	13	23	44	6	13	23
Street occupancy	:	•	:	•	•	•	263	1,100	1,311	1,248	1,405	1,502
Buildings damaged by fire	11	992	314	351	308	291	349	323	510	352	371	395
Estimated damage thereof	\$61,105	\$13,510,569	\$812,195	\$590,720	\$223,906	\$176,654	\$113,727	\$229,640	\$354,311	\$157,907	\$132,653	\$186,372
		_		_								







